Targets Management Office

Ground Targets Guide

As of: 30 September 2010

Distribution Statement A.
This publication contains technical or operational information.
Approved for public release; distribution is unlimited.

1

TMO Target Products

3

3

Operations

The Operations division, **Targets Systems Branch** of the TMO, is responsible for management of all foreign threat target hardware sustainment support and best value test support to customers.

The **Primary Operating Centers (POCs)** are a maintenance and support service provider located at test centers.
The POC mission is to provide vehicle support accountability and control; to implement configuration management processes; to store and maintain target assets; to manage day-to-day scheduling of supported user testing.

4

4

TMO Mission

"Manage the operation and life cycle of targets, operational threat vehicles, target control systems and ground range system used in live and virtual testing, and training.

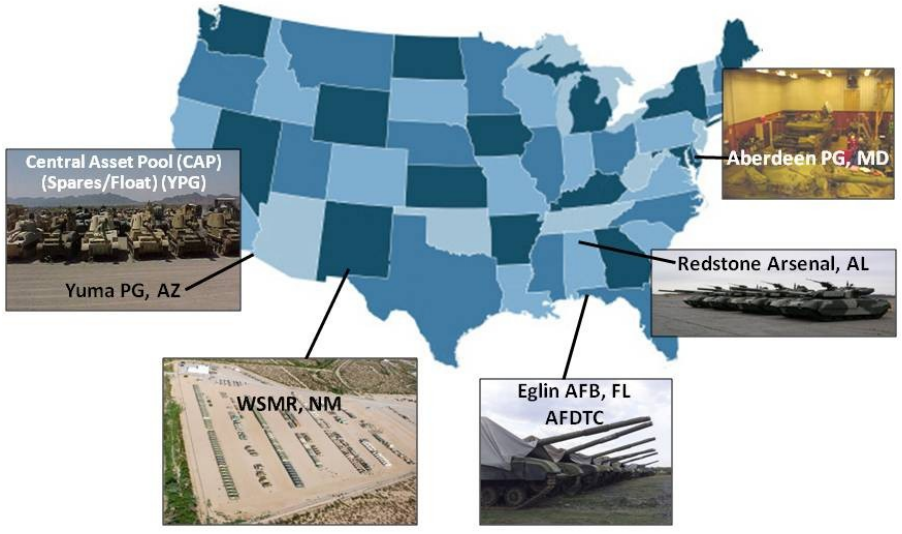
Provide best value acquisition, superior life cycle sustainment and operation for the U.S. Army, DoD, and International customer.

Execute missions as assigned or directed by PEO STRI and PM ITTS."

2

2

POC Locations



5

Mobile Ground Targets Points of Contact

Project Director:

Ms. Robbin Finley
Targets Management Office
Telephone: (256) 842-6459
E-mail: Robbin.Finley@us.army.mil

Operations:

Ms. Margarette Martin
Targets Management Office
Telephone: (256) 842-7130
E-mail: Margarette.Martin@us.army.mil

7

7

T-80UDG

46,000 kg

1250 hp Diesel

3

R: 70 km/h
OR: 48 km/h

NMC

Length: 7.01 m
Width: 3.6 m
Height: 2.2 m

Comes equipped as shown with: DROZD I APS system, Built in 2nd generation explosive reactive armor, dazzle paint, KMT-7 mine plow, system, commander fire control override, thermal protection of the most heated areas of the power pack, side skirts for heat deflection, smoke grenade launchers and smoke laying capability, APU onboard, one model with Air conditioning, self entrenchment, R173 radio.

8

8

MGT Assets

Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

6

6

4

T-80UDG

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1			3			4

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

9

T-72

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	4			1		1	6

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

11

T-72B

44,500 kg

840 hp
Diesel

3

R: 60 km/h
OR: 45km/h

NMC

Length: 6.91 m

Width: 3.58 m

Height: 2.19 m

Comes equipped as shown with: Kontakt reactive armor boxes (cassettes removed), offering more protection than previous T-72MBT. Side skirts for heat deflection, smoke grenade launchers, smoke laying, self entrenchment, new cooling fan system, R173 radio system.

12

12

T-72

44,500 kg

V-46
840 hp
Diesel

3

R: 60 km/h
OR: 45 km/h

NMC

Length: 6.91 m

Width: 3.58 m

Height: 2.19 m

Comes equipped as shown with: 125 mm main gun, 12.7mm anti aircraft gun, TPD-2-49 optical cross turret range finder; some models have additional armor on turret and TPD-K1 laser range finder.

10

10

T-72B

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1						1

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

13

T-72M

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	30	5	3	2		4	44

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

15

T-72M1

44,500 kg

V46-6
840 hp
Diesel

3

R: 60 km/h

NMC

Length: 6.91 m
Width: 3.58 m
Height: 2.19 m

Comes equipped as shown with: 125 mm main gun, improved armor, special paint, upgraded suspension system, extra protection from radiation, fire detection & suppression, installation of explosive reactive armor, communications, stabilization for main gun, new fire control system.

16

16

T-72M

44,500 kg

V46-6
840 hp
Diesel

3

R: 60 km/h

NMC

Length: 6.91 m
Width: 3.58 m
Height: 2.19 m

Comes equipped as shown with: 125 mm main gun, improved armor, special paint, upgraded suspension system, extra protection from radiation, fire detection & suppression, installation of explosive reactive armor, communications, stabilization for main gun, new fire control system.

14

14

T-72M1

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	5						5

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

17

T-62 MBT 115MM

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY				1		1	2

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

19

T-64

38,000 kg

5DTF
5 Cyl
700 hp MFD

3

R: 75 km/h

NMC

Length: 9.2 m
Width: 3.4 m
Height: 2.2 m

Comes equipped as shown with: A model 2A26M2 125 mm main gun,TPD-43D Gunner sight, 81mm smoke grenade launchers. The commander can aim and fire the 12.7 mm machine gun from within the turret. Increased amour on the turret, fitted for the KMT-6 mine clearing system.

20

20

T-62 MBT 115MM

41,500 kg

V-55-5 V12
580 hp
Diesel

4

R: 45 km/h

NMC

Length: 6.63 m
Width: 3.52 m
Height: 2.4 m

Comes equipped as shown with: A-model 2A20 115 mm main gun, cast turret with a TKN-3 commanders sight, 7.62 machine gun, Increased armour on the turret from the T55.

18

18

T-64

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY		1					1

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

21

BMP-1 IFV

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	15	1	1				17

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

23

BMP-2 IFV

14,300 kg

UTD-20
300 hp
Diesel

3 + 7

R: 65 km/h
OR: 40 km/h

NMC

Length: 6.72 m
Width: 3.15 m
Height: 2.45 m

Comes equipped as shown with: Model 2A42 30 mm cannon, 7.62 mm PKT machine gun, The AT-5 ATGW Spandrel missile launcher is not available. 81mm smoke grenade launchers and the capability to lay a diesel smoke screen . The gun elevation and turret traverse mechanism are electric with mechanical controls for emergency use.

24

24

BMP-1 IFV

13,500 kg

UTD-20
300 hp
Diesel

3 + 8

R: 65 km/h

NMC

Length: 6.74 m
Width: 2.94 m
Height: 2.15 m

Comes equipped as shown with: 73 MM 2A28 smoothbore gun, 7.62 mm PKT machine gun, AT-3 Sagger wire guided ATGW missile launcher and the capability to lay a smoke screen. The gun elevation and turret traverse mechanism are electric with mechanical controls for emergency use.

22

22

BMP-2 IFV

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	7	1					8

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

25

BMP-3 IFV

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1						1

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

27

MTLB / MTLBV / MTPLB

11,900 kg

YaMZ238
240 hp
Diesel

2 + 11

R: 61.5 km/h
OF: 30 km/h

NMC

28

Length: 6.35 m

Width: 2.85 m

Height: 1.87 m

Comes equipped as shown with: 7.62 mm machine gun, over 80 variants of this vehicle, Polish version almost identical to the Russian model,. TMO also has the MTPLB repair version._

28

BMP-3 IFV

16,000 kg

UTD-29M
500 hp
Diesel

3 + 7

R: 72 km/h
OR: 45 km./h

NMC

26

NOTE: Currently NOT in the TMO inventory - expected delivery to TMO in FY10.

Length: 7.14 m

Width: 3.2 m

Height: 2.4 m

Comes equipped with a 2A70 100mm rifled gun, 2A72 dual feed auto cannon, and a 7.62mm machine gun, all mounted coaxially in the turret. 81mm smoke grenade launchers. The gun elevation and turret traverse mechanism are electric with mechanical controls for emergency use.

26

MTLB / MTLBV / MTPLB

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	6	3	1		1		11

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

29

BRM1K

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	2						2

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

31

BRDM-2

7,000 kg

GAZ 41 V*
Water cooled
Petro

4

R: 95 km/h

NMC

Length: 5.75 m
Width: 2.75 m
Height: 2.31 m

Comes equipped as shown with: 14.5mm KPVT main gun and a 7.62 PKY machine gun, all welded steel armour hull that provided protection from small arms fire. Fully amphibious and comes in several different versions.

32

32

BRM1K

12,500 kg

UTD-20
6 CLY
Diesel

6

R: 70 km/h

NMC

Length: 6.75 m
Width: 2.97 m
Height: 1.98 m

Comes equipped as shown with: 73mm cannon, 7.62 machine gun, Uses the same hull as the BMP-1 but is fitted with a larger two-man turret. There are two roof hatches instead of the four on the BMP-1and is fitted with 81mm smoke grenade launchers.

30

30

BRDM-2

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	4	1					5

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

33

ACRV

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	2					4	6

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

35

BTR-60

10,100 kg

2 GAS-49B V8 90 hp Petro

2 + 8

R: 80 km/h

NMC

Length: 7.22 m

Width: 2.82 m

Height: 2.06 m

Comes equipped as shown with: 14.5 machine gun as the main gun and a 7.62mm PKT machine gun. All welded steel armour hull that provided protection from small arms fire. Uses the same turret as the BRDM-2 with all gun and turret controls being manual.

36

36

ACRV

15,500 kg

YaMZ 238 V8 300 hp

6

R: 44 km/h

NMC

Length: 6.54 m

Width: 2.95 m

Height: 3.8 m (w/Radar) 2.25 m (w/o Radar)

Comes equipped as shown with: 12.7 machine gun, all welded steel armour hull that provided protection from small arms fire. Fully amphibious and comes in several different versions. Comes with a R-107 and R-123 radios and varies other electronic equipment.

34

34

BTR-60

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	3		1				4

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

37

BTR-70

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	3	1					4

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

39

BTR-80

13,600 kg

YaMZ-238 V8
240 hp
Diesel

3 + 7

R: 85 km/h

NMC

Length: 7.55 m
Width: 2.95 m
Height: 2.41 m

Comes equipped as shown with: 14.5 machine gun as the main gun and a 7.62mm PKT machine gun. All welded steel armour hull that provided protection from small arms fire. Gun and turret controls being manual. Increased armour over the BTR-70.

40

40

BTR-70

11,500 kg

2 ZMZ-4905
V8 120 hp
Petro

2 + 9

R: 80 km/h

NMC

Length: 7.85 m
Width: 2.8 m
Height: 2.45 m

Comes equipped as shown with: 14.5 machine gun as the main gun and a 7.62mm PKT machine gun. All welded steel armour hull that provided protection from small arms fire. Uses the same turret as the BRDM-2 with all gun and turret controls being manual. Increased armour over the BTR-60.

38

38

BTR-80

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	5						5

41

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

SA-6 TEL

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1						1

43

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

SA-6 Radar

39 T

V6
240 hp
Diesel

3

R: 44 km/h

N/A

Length: 7.38 m

Width: 3.73 m

Height: 5.88 m

Fire control/short range target acquisition. Recognition: Essentially same chassis as SA-6. 12ft long search reflector with 7 ft diameter fire control parabolic dish on top. Radars mounted on heavy turntable. Radars can rotate independently of one another. Assembly folds flat in transit. Comes fully functional minus radar emissions.

44

44

SA-6 TEL

14,000 kg

V6
240 hp
Diesel

3

R: 44 km/h

NMC

Length: 7.38 m

Width: 3.18 m

Height: 5.88 m

The TEL carries three SA-6b missiles. Reload missiles are carried on modified 6x6 trucks and are loaded manually onto the launcher by a crane carried on the rear of the loader vehicle. Comes fully functional minus missile launch capabilities - no tactical link to fire control radar SA-6. Missile launcher rotates, slews, and elevates.

42

42

SA-6 Radar

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1						1

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

45

SA-8 TEL

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1						1

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

47

SA-9

7,000 kg

GAZ 41 V8 Water Cooled Petrol

3

R: 95 km/h

NMC

48

Length: 5.75 m
Width: 2.75 m
Height: 2.31 m

Comes equipped as shown with: The SA-9 Transporter-Erector and Launcher (TEL) consists of a basic BRDM-2 with the normal turret and chain-driven belly wheels removed and replaced with four ready to launch SA-9 container-launcher boxes. The version in the TMO fleet is a surrogate; however we do plan to acquire several actuals.

48

SA-8 TEL

9000 kg

D20K 300 Diesel

3

R: 80 km/h

NMC

46

Length: 9.14 m
Width: 2.75 m
Height: 4.20 m

Comes fully functional minus missile launch and fire control systems. The self-propelled anti-aircraft integrated system 9K33 "Osa" was designed for air defense of combat formation of mechanized infantry division during different kinds of combat and on the march.

46

SA-9

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY			1	1		1	3

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

49

SS-1c SCUD-B Launcher

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	2	1	**Not a TMO asset, Available through YTC**				3

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

51

2S1 SPH 122MM

15,700 kg

YaMZ 238N V8
300 hp
Diesel

4 + 2

R: 60 km/h
OR: 30 km/h

NMC

Length: 7.26 m
Width: 2.85 m
Height: 2.715 m

Comes equipped as shown with: 2A31 122mm Howitzer, All welded steel armour hull that provided protection from small arms fire. Gun and turret controls are electric with manual back up controls, uses a lot of the same chassis parts as the MTLB, R-123 radio.

52

52

SCUD-B Launcher

37,400 kg

D12
525 hp
Diesel

3

R: 55 km/h

NMC

Length: 13.36 m
Width: 3.02 m
Height: 3.05 m

The `Scud B' missile is carried on an eight wheeled MAZ 543 P TEL vehicle (9P117M), the missile is raised to the vertical position at the back of the TEL before launch. The TEL can carry three crew, but it is believed that five men are required in the launcher crew.

50

50

2S1 SPH 122MM

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	7	1		4		2	14

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

53

2S3M SPH 152MM

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	6	2		3	2		13

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

55

ASTRO II Launcher

20,000 kg | 280 hp Diesel | 3

R: 70 km/h | NMC

Length: 8.0 m
Width: 2.4 m
Height: 2.6 m

Comes equipped as shown with: Astro II Universal Multiple Launcher (AV-LMU) based on a 10,00 kg cross country truck (AV-VBA) built by AVIBRAS, The launcher can fire four different type of unguided rocket, SS-30, SS-40, SS-60 and the SS-80.

56

56

2S3M SPH 152MM

27,500 kg | V-59 V12 520 hp Diesel | 4 + 2

R: 60 km/h | NMC

Length: 7.75 m
Width: 3.21 m
Height: 3.13 m

Comes equipped as shown with: 2A33 152mm Howitzer, All welded steel armour hull that provided protection from small arms fire. Gun and turret controls are electric with manual back up controls, R-123 radio. The M and M1 versions have a higher rate of fire and two small stowage compartment covers left and right on the hull rear as opposed to a larger oval cover in the center.

54

54

ASTRO II Launcher (AVIBRAS)

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1						1

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

57

ASTRO II Trans/Loader

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY						1	1

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

59

BM-21

13,700 kg

ZIL 375 V8 gasoline

5

R: 75 km/h

NMC

Length: 7.35 m
Width: 2.4 m
Height: 3.09 m

Comes equipped as shown with: BM-21 122 mm multiple rocket launcher capable of firing 40 rounds of surface to surface missiles, based on a Ural-375 6 x 6 4000kg cross country truck. Also comes in a 36 round model on a Zil-131 chassis.___

60

60

ASTRO II Trans/Ldr

20,000 kg

280 hp Diesel

3

R: 70 km/h

N/A

Length: 8.0 m
Width: 2.4 m
Height: 2.6 m

Comes equipped as shown with: Astro II ammunition re-supply vehicle (AV-RMD) based on a 10,000 kg cross country truck (AV-VBA) built by AVIBRAS, carries two complete re-load set with onboard cranes, can carry four different type of unguided rocket for re-load. SS-30, SS-40, SS-60 and the SS-80.

58

58

BM-21

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	3					1	4

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

57

SMERCH

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1						1

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

59

STYX

40,900 kg | N/A | 6

R: 60 km/h | NMC

64

Length: 13.95 m

Width: 3.15 m

Height: 4.05 m

Comes equipped as shown with: SSC-3 (STYX) Coastal Defense Missile Launcher System is on a modified MAZ-543M (8 x8) heavy wheeled transporter that has a large three man control compartment added behind the drivers station. To the rear of the control center is a tandem cylindrical container-launcher for two KT-161 surface to surface missiles.

64

SMERCH

43,700 kg | 518 hp V12 Diesel | 4

R: 60 km/h
OR: 35 km/h | NMC

62

Length: 12.1 m

Width: 3.05 m

Height: 3.05 m

Comes equipped as shown with: Splav 300mm BM 9A52 (12) round Smerch multiple rocket system, bases on a modified MAZ-543M (8 x8) heavy wheeled transporter fitted with a 12 round elevating launcher on the rear deck. The 300 mm rocket tube arrangement is two separate banks of four with a connecting roof of the remaining four tubes overlaying the inner tubes of the banks.

62

STYX

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1	1	1				3

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

65

D20 152mm

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	4			1	1		6

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

67

D30 122mm

3,200 kg | N/A | 5

R: 60 km/h
OR: 25 km/h | NMC

Length: 5.4 m

Width: 1.9 m

Height: 1.6 m

Comes equipped as shown with: D30 152 mm howitzer developed in the early 1960s; split trail carriage with castor wheel on each. Chinese type 60 is a the same.__

6 8

68

D20 152mm

5,700 kg | N/A | 8

R: 60 km/h
OR: 30 km/h | NMC

Length: 8.1 m

Width: 2.35 m

Height: 2.52 m

Comes equipped as shown with: D20 152 mm howitzer developed at the end of WW2, split trail carriage with castor wheel on each. Chinese type 66 is a the same.

66

66

D30 122mm

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	12		2	1			15

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

69

G5 155mm Howitzer

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY		1					1

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

71

M46 130mm

8,450 kg | N/A | 8

R: 50 km/h
OR: 20 km/h

NMC

Length: 11.73 m
Width: 2.45 m
Height: 2.55 m

Russian 130mm caliber split trail with limber as a towed field gun. Also known as Chinese Type 59-1.

7
2

72

G5 155mm Howitzer

13,750 kg | N/A | 5 - 7

R: 90 km/h
OR: 50 km/h

NMC

Length: 12.1 m
Width: 3.3 m
Height: 2.3 m

Comes equipped as shown with: G5 155 mm howitzer developed by the South African Defense Force in 1983, using a split trail carriage with a APU. _

70

70

M46 130mm Towed Field Gun

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY		1					1

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

73

TYPE 59-1 130mm Towed Field Gun

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY		1	5	1			7

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

75

S60 57mm

4,660 kg | N/A | 7

R: 75 km/h | NMC

Length: 8.5 m
Width: 2.05 m
Height: 2.37 m

Comes equipped as shown with: S-60 57mm automatic anti-aircraft gun, towed four wheeled carriage that is raised off the ground during firing with the weapon resting on a four points, also known as Chinese type 59-1.

76

76

TYPE 59-1 130mm

4,660 kg | N/A | 7

R: 75 km/h | NMC

Length: 11.73 m
Width: 2.45 m
Height: 2.55 m

The Chinese version of the M46 130mm towed field gun. Comes equipped as shown 130mm caliber towed field gun.

74

74

S60 57 mm

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY		1		1	3		5

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

77

TYPE 63

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1						1

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

79

ZPU-1

413 kg | N/A | 4

N/A | NMC

Length: 3.35 m

Width: 1.52 m

Height: 1.22 m

Comes equipped as shown with: ZPU-1 14.5 mm single barrel Vladimirov KPV heavy machine gun, quick change barrel, two wheeled carriage can be dismantled for easy transport.

80

80

TYPE 63

613 kg | N/A | 5

N/A | NMC

Length: 2.6 m

Width: 1.4 m

Height: 1.2 m

Comes equipped as shown with: 107 mm MRL developed by China in the late 1950s, has three banks of four 107 mm barrels and is mounted on rubber tires with a split pole type carriage. When firing the tires are removed and the launcher is supported by two trails at the rear which are fitted with spades.

78

78

ZPU-1

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	7						7

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

81

ZPU-2

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	3	1					4

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

83

ZPU-4

1,016 kg | N/A | 5

N/A | NMC

84

Length: 1.22 m

Width: 1.52 m

Height: 1.83 m

Comes equipped as shown with: ZPU-4 14.5 mm double barrel Vladimirov KPV heavy machine gun, quick change barrel, four wheeled carriage that is raised off the ground during firing; the weapon rests on a four point.

84

ZPU-2

1,016 kg | N/A | 5

N/A | NMC

82

Length: 1.22 m

Width: 1.83 m

Height: 1.83 m

Comes equipped as shown with: ZPU-2 14.5 mm double barrel Vladimirov KPV heavy machine gun, quick change barrel, two wheeled carriage can be dismantled for easy transport. During firing the wheels are removed and the weapon rests on a three point platform.

82

ZPU-4

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1	2		1		1	5

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

85

ZSU 23-4

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	4		1				5

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

87

FROG 7 (on ZIL-135)

17,500 kg

2xZIL-375
7 1 V8
Petrol

3

R: 60 km/h

NMC

88

Length: 10.69 m

Width: 2.8 m

Height: 2.86 m

Comes equipped as shown with: Frog 7 single rail launcher on a BAZ-135L4 (8x8) Transporter –Erecter-Launcher (TEL) platform. Sitting on a Zil 135 Chassis.

88

ZSU 23-4

20,500 kg

V-6R
280 hp
Diesel

4

R: 50 km/h

NMC

86

Length: 6.54 m

Width: 2.95 m

Height: 2.25 m

Comes equipped as shown with: ZSU-23-4 with four 23 mm AZP-23mm cannons, all welded steel hull with three compartments, drivers at the front, fighting in the center and engine at the rear. The fire control system consists of the radar (model RPK-2) sighting device, computer, line of sight and line of elevation stabilization units. Turret control electric with manual back-up.

86

FROG 7 (on ZIL-135 Truck Chassis)

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1					1	2

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

89

GAZ-66 Truck (Cargo)

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1	5			1	2	9

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

91

KAMAZ-4310(Van Body)

8,410 kg | Diesel | 3

Max 85 km/h | N/A

92

Length: 7.125 m
Width: 2.5 m
Height: 2.9 m

The KamAZ-4310 is the primary, all-wheel drive (6x6), heightened-mobility cargo truck model of the Kama River Motor Vehicle Plant. The KamAZ-4310 entered limited production in 1980, and mass production probably began in 1983 or 1984.
Comes equipped as shown with communications van body

92

GAZ-66 Truck (Cargo)

4,090 kg | V8 115 hp Petrol | 3 + 8

R: 90 km/h | N/A

90

Length: 5.92 m
Width: 2.53 m
Height: 2.49 m

Comes equipped as shown with as a cargo version with the lay out being conventional with drop sides and tailgate. Also comes in several other variants.

90

KAMAZ-4310 (Van Body)

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1						1

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

93

KAMAZ-4310 (Cargo)

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1						1

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

95

URAL 375D Van Body

4,898 kg | V8 180 hp | 3

R: 82 km/h | N/A

96

Length: 5.92 m

Width: 2.53 m

Height: 2.49m

The Ural-375 series truck is a general purpose 4.5 ton 6x6 truck. Comes equipped with electronics van body.

96

KAMAZ-4310(Cargo)

8410 kg | Diesel | 3

Max 85 km/h | N/A

94

Length: 7.125 m

Width: 2.5 m

Height: 2.9m

The KamAZ-4310 is the primary, all-wheel drive (6x6), heightened-mobility cargo truck model of the Kama River Motor Vehicle Plant. The KamAZ-4310 entered limited production in 1980, and mass production probably began in 1983 or 1984.
Comes equipped as shown

94

URAL 375D Van Body

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	2						2

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

97

UAZ 469 Utility Vehicle

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1			1		1	3

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

99

Vehicle removed

100

UAZ 469 Utility Vehicle

2450 kg | 4 cyl, 75 hp Gasoline | 1 + 3

R: 80 km/h | N/A

Length: 158.5 inch

Width: 70.3 inch

Height: 80.7 inch

The UAZ-469 is an all-terrain vehicle manufactured by UAZ. It was used by the Red Army and other Warsaw Pact forces, as well as paramilitary units in Eastern Bloc countries.

98

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY							0

vehicle removed

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

101

ZIL 130 Truck

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1						1

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

103

ZIL 131 Truck

10,425 kg

ZIL-131 V8
150 hp
Petrol

3 + 8

R: 80 km/h

N/A

Length: 7.04 m w/winch 6.9 w/o winch

Width: 2.5 m

Height: 2.48 m

Comes equipped as shown with: Zil-131 6 x 6 3, 500 kg cargo truck, The lay out is conventional with drop sides and tailgate. Comes in several variants:

- Cargo (5)
- Reload for SA-6 (1)
- Generator, Van Body (1)
- Antenna Bore Sight (1)
- Cable, Van Body (1)

104

104

ZIL 130 Truck

4,300 kg

ZIL-130 V8
170 hp
Petrol

3 + 8

R: 90 km/h

N/A

Length: 6.675 m

Width: 2.5 m

Height: 2.4 m

Comes equipped as shown with: Zil-130 4 x 2 4, 500 kg cargo truck, The lay out is conventional with drop sides and tailgate. Comes in several variants.

102

102

ZIL 131 Truck

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	9						9

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

105

ZIL 131 R Truck

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1		1				2

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

107

Vehicle removed

108

ZIL 131 R Truck

10,425 kg

ZIL-131 V8
150 hp
Petrol

1 + 2

R: 80 km/h

N/A

Length: 7.04 mComes equipped as shown with: Zil-131R 6 x 6 w/winch 6.9 w/o3, 500 kg van body (radio version) truck. winch

Width: 2.5 m

Height: 2.48 m

106

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY							0

vehicle removed

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

109

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY							0

vehicle removed

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

111

Technical Vehicle

2800 kg | N/A | 1 + 1

R: 120 km/h
OR: 45 km/h

optional

Length: Varies
Width: Varies
Height: Varies

Available in Nissan, Toyota, Mitsubishi, 2WD/4WD, king cab and quad cab models. Mounted gun systems include:

- HMG
- Mortar
- ATGM
- ZPU Anti-aircraft

11
2

112

Vehicle removed

110

110

Technical Vehicle

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	10						10

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

113

Chevrolet 4X4 Pick-up Truck

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	39		11			2	52

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

115

Chevrolet 4X4 Blazer

5,200 kg

V8 6.2 Diesel

1 + 3

R: 65 km/h
OR: 30 km//h

N/A

Length: 191.8 in
Width: 79.6 in
Height: 76.0 in

Standard 4X4 Chevrolet Blazer, model M1009. No communications equipment installed.

11 6

116

Chevrolet 4X4 Truck

5,900 kg

V8 6.2 Diesel

3 + 8

R: 65 km/h
OR: 30 km/hr

N/A

Length: 220.7 in
Width: 81.2 in
Height: 76.0 in

Standard 4X4 Chevrolet Pick-up Truck, models include M1008 & M1028. No communications equipment installed. Mounted gun systems include:

- HMG
- Mortar
- ATGM
- ZPU Anti-aircraft

114

114

Chevrolet 4X4 Blazer

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	4		1			2	7

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

117

M998 HMMWV

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	6						6

Ground Target Condition Codes

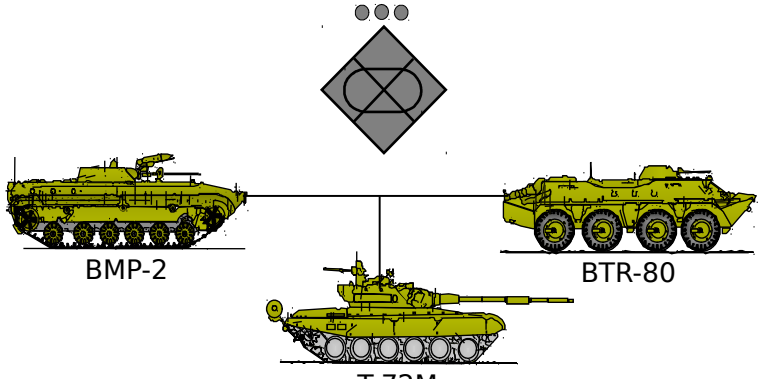
Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

119

OTVC

Operational Threat Vehicle Company



120

120

M998 HMMWV

5200 kg

8 cyl. Diesel
6.5L

1 + 1

R 65 km/h
OR: 35 km/h

N/A

Length: 4.6 m
Width: 2.1 m
Height: 1.8 m

The M998 High Mobility Multipurpose Wheeled Vehicle (HMMWV or Humvee) is a military 4WD motor vehicle created by AM General for the United States military, as well as being used by a number of other countries and organizations. Comes equipped in the truck-bed variant.

118

118

OTVC Mission

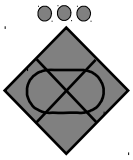
The **Operational Threat Vehicle Company (OTVC)** program will acquire and field *fully mission capable* targets (i.e., Main Battle Tanks, Infantry Fighting Vehicles, and Armored Personnel Carriers) to meet emerging requirements for threat representative missions. The OTVC will provide realistic threat capable targets for use in force-on-force exercises to allow Blue Forces to think and adapt to the changing battle dynamic as it unfolds.

121

Cost

The usage fees and acquisition costs are NOT listed within this guide because they are subject to change due to market conditions and asset availability.

Contact Project Director or Operations Manager for current usage fees or acquisition costs



123

Surrogates

12
4

124

Availability

OTV C	IOC
T-72M Main Battle Tank	4th QTR, FY 09
BMP-2 Infantry Fighting Vehicle	4th QTR, FY 10
BTR-80 Armored Personnel Carrier	4th QTR, FY 11

122

122

Surrogates

A Surrogate as defined by TMO, is any target with less capability than an actual threat. These can be classified in three categories:

Highly Representative ($200K and above) i.e. SMERCH vehicles

- Meets all realms of signature characteristics of threat
- Emulates all or most of mobility/operational characteristics of threat

Moderately Representative ($50K-$200K) i.e. T-80

- Meets two or more signature characteristics of threat
- Emulates many of the mobility/operational characteristics of threat

Representative ($10K-$50K) i.e. Plastic Targets, LCMs

- Meets only select signature characteristics
- Little or no mobility or operational capability of threat

All Surrogates are Validated using the U.S. Army Validation Process

125

SMERCH Surrogate

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	1	1	2				4

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

127

2S3 Surrogate

40 T

M48 Chassis

1

N/A

N/A

Length: 6.35 m

Width: 2.85 m

Height: 1.87 m

Medium fidelity surrogate metal 2S3: Metal façade mounded on top of a M48 Chassis. M48 turret removed to allow mounting of metal façade. Fluids removed to allow for live fire testing._

128

128

SMERCH Surrogate

16,500 kg

V12 518 hp Diesel

1+1

R: 65 km/h
OR: 45 km/h

N/A

Length: 6.74 m

Width: 2.94 m

Height: 2.15 m

Comes equipped as shown with: Surrogate Splav 300mm BM 9A52 12 round Smerch MRS, bases on a modified MAZ-543M (8 x8) heavy wheeled transporter fitted with a 12 round elevating launcher on the rear deck. The launcher will not raise up or slew. No launch control equipment included. Validated Target.

126

126

2S3 Surrogate

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY				27			27

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

129

BMP-3 Surrogate

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY	5			2			7

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

131

T-80 Surrogate

40 T

M48 Chassis

1

N/A

N/A

Length: 6.35 m

Width: 2.85 m

Height: 1.87 m

Comes equipped as shown with: Surrogate T-80 turret mounted on a M48 Chassis.

132

132

BMP-3 Surrogate

39 T

M60 Chassis

1

N/A

N/A

Length: 7.62 m

Width: 3.75 m

Height: 3.14 m

Medium fidelity BMP-3 IFV (VIRA); The BMP-3 surrogate does not employ an operational turret or gun. It emulates the visual, infrared and millimeter wave signature of the actual BMP-3. It is composed of a modified American M60 tank chassis equipped with specially designed façade assemblies that provide signatures close to the actual. Validated Target

130

130

T-80 Surrogate

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY				4			4

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

133

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY							0

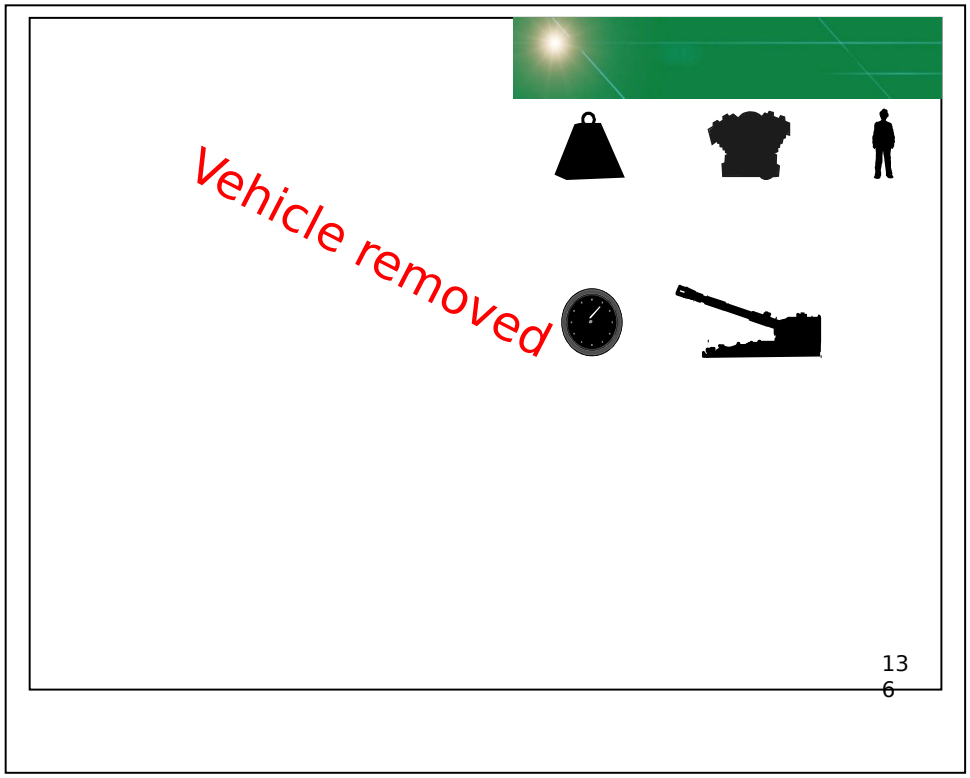
Vehicle removed

Ground Target Condition Codes

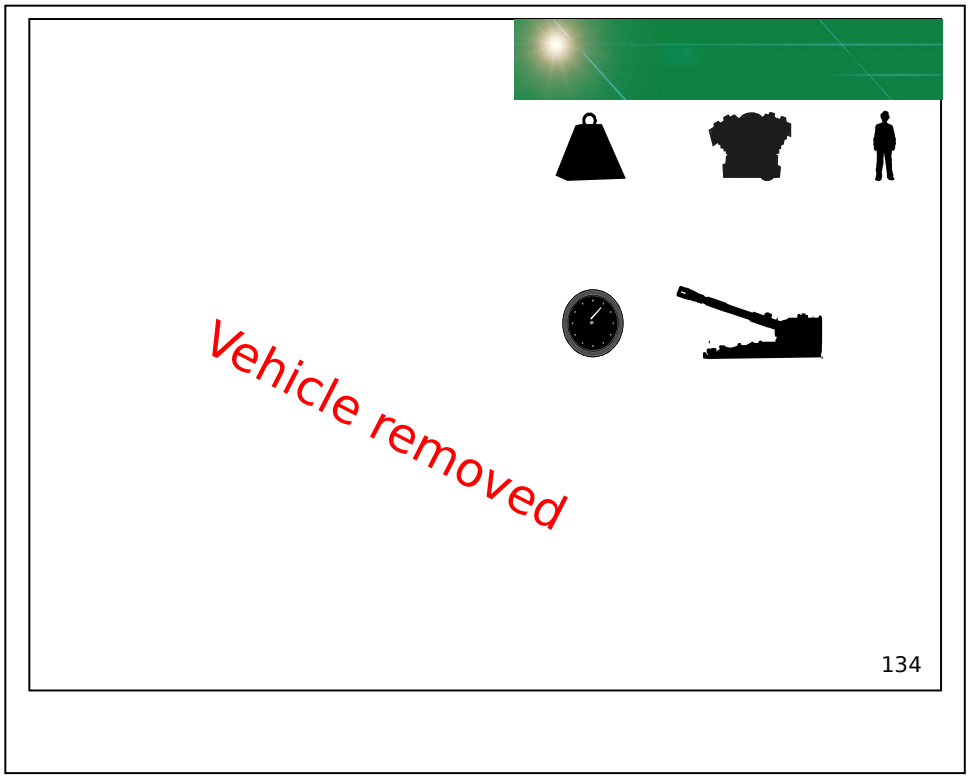
Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

135



136



134

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY							

vehicle removed

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

137

ZSU 23-4 Plastic Surrogate

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY					1		1

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

139

Low Cost Mover

6,000 kg

V8
Water Cooled

0

R: 60 km/h
OR: 35 km/h

N/A

Length: Facade Dependent

Width: Facade Dependent

Height: Facade Dependent

The LCM consists of a target mover, target and remote control system. The target mover consists of a modified Ford F350 Super Duty Pickup Truck that has been equipped with a remote control system and target support framework. The target selected is a full-scale physical representation of a threat system. ~~Target facades include T72, 2S6, ZSU 23-4.~~

140

140

140

ZSU 23-4 Plastic Surrogate

2,500 lbs

N/A

0

N/A

N/A

Length: 6.35 m

Width: 2.85 m

Height: 1.87 m

Low Fidelity surrogate plastic ZSU-23-4 (VI): The plastic ground target is a visual and thermal surrogate of the ZSU-234. Full scale vacuum formed target made of 5/32 inch thick ABS plastic. Plastic façade attached to wood frame mounted on wooden skids that allow towing or lifting.

138

138

138

Low Cost Mover

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY							0

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

141

T-72 MBT Plastic Surrogate

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY					10		10

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

143

PTS

100 kg | N/A | 4-5 (set-up)

N/A | N/A

144

Available Targets:

- T-72M1
- BMP-2
- BTR-80-FY10

Full-size State-of-art signature technologies/ application on chloroplast materials available in T72M1, BMP-2 and BTR-80 models. Thermal pads located on traditional hot spots for increased signature fidelity. Targets are purchased – hourly rates do not apply. Set-up time: 4 people, 4-5 hours.

144

72 MBT Plastic Surrogate

2,500 lbs | N/A | 0

N/A | N/A

142

Length: 6.72 m
Width: 3.15 m
Height: 2.45 m

Low Fidelity surrogate plastic T-72 (VI): The plastic ground target is a visual and thermal surrogate of the T-72 main battle tank. Full scale vacuum formed target made of 5/32 inch thick ABS plastic. Uses internal water jackets to simulate the passive diurnal IR signature. Water jackets-glacis, hull top, hull front, rear, turret top. Available in olive drab, desert sand or camouflage colors. Plastic façade attached to wood frame mounted on wooden skids that allow towing or lifting. Validated Target.

142

Precision Target Signature

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY			Purchase Only				

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

145

Mobile Camouflage System (MCS)

Condition Categories

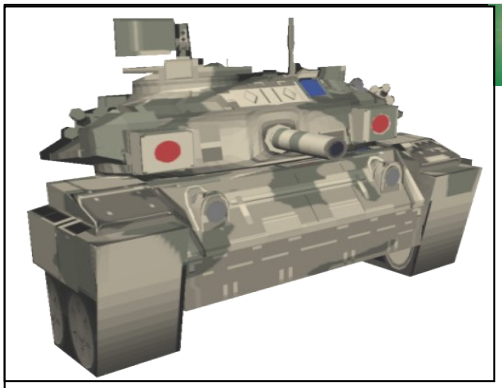
CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY			Purchase Only				

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

147



RLCT

N/A | N/A | 1-2 (set-up)

N/A | N/A

Available Targets:

- Under Development

Realistic Low Cost Targets (RLCT) are the next generation of the TVST. They are thermally augmented, full-scale 2½-dimensional targets that produce enhanced signature fidelity. They have none of the mobility or operational characteristics of the threat vehicles they portray.

148

148

MCS

N/A | N/A | 4 (install)

N/A | N/A

Available Kits:

- T-72M
- BMP-2
- BMP-1
- BTR-80
- BTR-70

PURCHASE ONLY: MCS is custom designed and template conformal camouflage, designed to improve survivability of military hardware. MCS provides visual, near infrared, and radar signature reduction. The screens are made of a synthetic, lightweight, water resistant material designed by SAAB Barracuda. Available in Woodland or Desert variants.

146

146

Realistic Low Cost Target (RLCT)

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY							

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

149

Threat Vehicle Surrogate Target (TVST)

Condition Categories

CODE	1A	1B	2A	2B	3A	3B	TOTAL
QTY			Purchase Only				

Ground Target Condition Codes

Code	Description	Test Condition
1A	Fully Operational and Good Visual, Infrared, Acoustical (VIRA) Signatures	Ready for Test
1B	Limited Operational and one or more VIRA signatures not acceptable	
2A	Needing Minor Repair	Non-Operational
2B	Needing Major Repair	
3A	Good for limited Static testing	Non-Operational
3B	Good for cannibalization or destructive test	Non-Repairable

Contact Project Director or Operations Manager for current usage fees or acquisition costs

151

Disclaimer

Note: The prices listed within this guide are subject to change due to market conditions and asset availability.

152

TVST

N/A

N/A

1-2 (set-up)

N/A

N/A

Available Targets:

- BMD-2 port flank
- BMP-2 frontal
- BTR-70 frontal
- BRDM-2 starboard flank

Threat Vehicle Surrogate Targets (TVSTs) are thermally augmented, full-scale 2½-dimensional targets that are mounted on target lifters and movers for use as gunnery targets. They have none of the mobility or operational characteristics of the threat vehicles they portray. Each TVST provides one of the following views: frontal, starboard flank, or port flank representation.

150

150

Distribution Statement A.

This publication contains technical or operational information. Approved for public release; distribution is unlimited

153

List of Acronyms

R	On-Road
RLCT	Realistic Low Cost Target
TBD	To Be Determined
TMO	Targets Management Office
TVST	Threat Vehicle Surrogate Target
VIRA	Visual, Infrared, Acoustical

155

Mobile Ground Targets Points of Contact

Project Director:

Ms. Robbin Finley
Targets Management Office
Telephone: (256) 842-6459
E-mail:
Robbin.Finley@us.army.mil

Operations:

Ms. Margarette Martin
Targets Management Office
Telephone: (256) 842-7130
E-mail:
Margarette.Martin@us.army.mil

156

156

List of Acronyms

FMC	Full Mission Capable
hp	horse power
IOC	Initial Operational Capability
kg	kilograms
km/h	kilometers per hour
m	meters
MCS	Mobile Camouflage System
MGTO	Mobile Ground Target Operations
NMC	Non Mission Capable
OR	Off-Road
OTVC	Operational Threat Vehicle Company
POC	Primary Operating Center
QTY	Quantity

154